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Search Results - Record(s) 1 through 11 of 11 returned.☐ 1. Document ID: US 5932497 A

L1: Entry 1 of 11

File: USPT

Aug 3, 1999

US-PAT-NO: 5932497

DOCUMENT-IDENTIFIER: US 5932497 A

TITLE: Breathable elastic film and laminate

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morman; Michael Tod	Alpharetta	GA		
Milicevic; Cindy Janja	Cumming	GA		

US-CL-CURRENT: 442/286; 264/41, 442/227, 442/59, 604/373, 604/385.24

ABSTRACT:

A soft, breathable elastic laminate of an elastic film loaded with a filler having a particle size suitable for pore formation and stretched in at least two directions to form a plurality of micropores bonded to a nonwoven web. In accordance with one embodiment, the elastic film is water vapor impermeable prior to being stretched.

63 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw Desc	Image
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☐ 2. Document ID: US 4965122 A

L1: Entry 2 of 11

File: USPT

Oct 23, 1990

US-PAT-NO: 4965122

DOCUMENT-IDENTIFIER: US 4965122 A

TITLE: Reversibly necked material

DATE-ISSUED: October 23, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morman; Michael T.	Alpharetta	GA		

US-CL-CURRENT: 442/328; 428/326, 428/903, 428/910, 442/344, 442/393

ABSTRACT:

A reversibly necked material capable of stretching at least about 75 percent and recovering at least about 50 percent when stretched about 75 percent, typically in a direction generally parallel to the direction of necking. The reversibly necked material is made by applying a tensioning force to at least one material to neck the material, heating the necked material, and cooling the necked material that the reversibly necked material possesses a greater heat of fusion and/or a lower onset of melting than the material before heating while stretched.

25 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KAMC	Draw Desc	Image
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☐ 3. Document ID: US 4340563 A

L1: Entry 3 of 11

File: USPT

Jul 20, 1982

US-PAT-NO: 4340563

DOCUMENT-IDENTIFIER: US 4340563 A

TITLE: Method for forming nonwoven webs

DATE-ISSUED: July 20, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Appel; David W.	Wittenberg	WI		
Morman; Michael T.	Appleton	WI		

US-CL-CURRENT: 264/518; 19/299, 264/210.8, 264/211.14, 264/237, 425/66, 425/72.2, 425/83.1

ABSTRACT:

An improved method and apparatus for forming nonwoven webs by spinning filaments into a quench chamber where they are contacted with a quenching fluid, then utilizing the quench fluid to draw the filaments through a two-dimensional nozzle spanning the full machine width, and collecting the filaments as a web on a porous surface. In contrast with the prior art, low motive fluid pressures can be used, and a non-eductive drawing means utilized to minimize air turbulence and the resulting filament entanglement in the drawing means while maintaining substantially constant cross machine filament distribution. The apparatus and process reduce problems relating to filament breakage and spreading and result in increased productivity and improved web formation. Other advantages include the ability to continuously spin highly pigmented polymer filaments and reduced hazards associated with high noise levels.

8 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KAMC	Draw Desc	Image
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☐ 4. Document ID: US 3849241 A

L1: Entry 4 of 11

File: USPT

Nov 19, 1974

US-PAT-NO: 3849241

DOCUMENT-IDENTIFIER: US 3849241 A

TITLE: NON-WOVEN MATS BY MELT BLOWING

DATE-ISSUED: November 19, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Butin; Robert R.	Baytown	TX		
Keller; James P.	Baytown	TX		
Harding; John W.	Baytown	TX		

US-CL-CURRENT: 428/137; 156/167, 264/210.8, 264/211, 264/211.17

ABSTRACT:

Melt blown non-woven mats prepared from thermoplastic polymer fibers and substantially completely free of polymer shot are produced at high polymer throughput rates in an improved melt blowing process in which thermoplastic polymer resins, preferably polypropylene, having initial intrinsic viscosities of at least 1.4, are degraded, optionally in the presence of a free radical source compound, to have both reduced intrinsic viscosities and an apparent viscosity in the melt-blowing nozzle orifices of from about 50 to about 300 poise.

37 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KNIC	Draw Desc	Image
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☐ 5. Document ID: US 3802817 A

L1: Entry 5 of 11

File: USPT

Apr 9, 1974

US-PAT-NO: 3802817

DOCUMENT-IDENTIFIER: US 3802817 A

TITLE: APPARATUS FOR PRODUCING NON-WOVEN FLEECES

DATE-ISSUED: April 9, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsuki; Mutsuo	Nobeoka			JA
Nishimura; Sadaji	Fuji			JA
Goto; Masato	Fuji			JA

US-CL-CURRENT: 425/66; 19/299, 264/210.2, 264/288.8, 264/555, 425/72.2, 425/83.1

ABSTRACT:

The invention relates to a process for the manufacture of a fleece-like sheet having a non-woven texture, from a large number of melt-spun monofilaments.

The improvement resides in the arrangement of the melt-spun monofilaments in a curtain-like form which is then subjected to the action of a pair of air jet streams in a sucker only once during travel of the curtain of monofilaments from the both sides thereof, the jet velocity of said jet streams being selected to be in the turbulent flow range, and then projected from the sucker onto a travelling gas pervious belt-like collector.

4 Claims, 6 Drawing figures Number of Drawing Sheets: 3

Full	Title	Class	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 6. Document ID: US 3692618 A

L1: Entry 6 of 11

File: USPT

Sep 19, 1972

US-PAT-NO: 3692618

DOCUMENT-IDENTIFIER: US 3692618 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: September 19, 1972

US-CL-CURRENT: 442/401; 156/167, 156/181, 28/247, 28/281, 28/282, 428/332, 428/340

Full	Title	Class	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 7. Document ID: US 3542615 A

L1: Entry 7 of 11

File: USPT

Nov 24, 1970

US-PAT-NO: 3542615

DOCUMENT-IDENTIFIER: US 3542615 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: November 24, 1970

US-CL-CURRENT: 156/181; 156/305

Full	Title	Class	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 8. Document ID: US 3502763 A

L1: Entry 8 of 11

File: USPT

Mar 24, 1970

US-PAT-NO: 3502763

DOCUMENT-IDENTIFIER: US 3502763 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: March 24, 1970

US-CL-CURRENT: 264/555; 264/103, 264/210.2, 264/511, 425/378.2, 425/72.2, 51/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 3502538 A

L1: Entry 9 of 11

File: USPT

Mar 24, 1970

US-PAT-NO: 3502538

DOCUMENT-IDENTIFIER: US 3502538 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: March 24, 1970

US-CL-CURRENT: 428/359; 428/364

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 3341394 A

L1: Entry 10 of 11

File: USPT

Sep 12, 1967

US-PAT-NO: 3341394

DOCUMENT-IDENTIFIER: US 3341394 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: September 12, 1967

US-CL-CURRENT: 442/366; 156/167, 162/157.3, 162/157.5, 264/123, 264/136, 264/441,
264/484, 28/103, 28/257, 28/273, 428/483, 428/515, 428/523, 442/394

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 3338992 A

L1: Entry 11 of 11

File: USPT

Aug 29, 1967

US-PAT-NO: 3338992

DOCUMENT-IDENTIFIER: US 3338992 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: August 29, 1967

US-CL-CURRENT: 264/441; 264/109, 264/290.5, 264/465, 264/479, 264/484

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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EMAC	Draw Desc	Image
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"3341394"[USPT]	1
3341394S	0
"3502538"[USPT]	1
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"3502763"[USPT]	1
3502763S	0
"3542615"[USPT]	1
3542615S	0
"3692618"[USPT]	1
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